

(12) **UK Patent Application** (19) **GB** (11) **2 355 738** (13) **A**

(43) Date of Printing by UK Office 02.05.2001

(21) Application No 0016917.7

(22) Date of Filing 27.04.2000

(30) Priority Data  
(31) 60131106 (32) 26.04.1999 (33) US

(86) International Application Data  
PCT/IL00/00245 En 27.04.2000

(87) International Publication Data  
WO00/77431 En 21.12.2000

(71) Applicant(s)  
Shell Internationale Research Maatschappij B.V.  
(Incorporated in the Netherlands)  
Department IP/43 Carel Van Bylandtlaan 30,  
2596 HR The Hague, Netherlands

(72) Inventor(s)  
Robert Lance Cook  
David Paul Brisco  
R Bruce Stewart  
Lev Ring  
Richard Carl Haut

(51) INT CL<sup>7</sup>  
E21B 43/10 33/14 , F16L 13/14

(52) UK CL (Edition S )  
E1F FJT FLA  
F2G G24D3 G25A

(56) Documents Cited

GB 2347952 A	GB 2347950 A	GB 2344606 A
GB 1137310 A	EP 0881354 A	WO 99/35368 A
WO 98/00626 A	US 5924745 A	US 4707001 A
US 4703959 A	US 4648627 A	US 4577895 A
US 4501443 A		

(58) Field of Search  
UK CL (Edition S) E1F F2J FLA, F2G  
INT CL<sup>7</sup> E21B , F16L  
Online: WPI, EPODOC, JAPIO

(72) cont  
Robert D Mack  
Alan B Duell  
Andrei G Filippov

(74) continued overleaf

(54) Abstract Title  
Wellbore casing with radially expanded liner extruded off of a mandrel

(57) An expandable threaded connection includes a first tubular member, a second tubular member and a threaded connection for coupling the tubular members that includes one or more sealing members.

This international application was published on 21 December 2000. The international search is not available and, therefore, the search incorporated into this document has been made under Section 17.

This front page is a reprint to rectify errors introduced in the course of reproduction - 02.05.2001.

GB 2 355 738 A



INVESTOR IN PEOPLE

Application No: GB 0016917.7  
Claims searched: 1

Examiner: David Pepper  
Date of search: 25 September 2000

## Patents Act 1977 Search Report under Section 17

### Databases searched:

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:

UK Cl (Ed.R): E1F FJT, FLA

Int Cl (Ed.7): E21B

Other: Online: WPI, EPODOC, JAPIO

### Documents considered to be relevant:

Category	Identity of document and relevant passage	Relevant to claims
X,E	GB 2347952 A (Shell Int Research)	1
X,E	GB 2347950 A (Shell Int Research)	1
X,E	GB 2344606 A (Shell Int Research)	1
X	EP 0881354 A (Sofitech N.V.)	1
X	WO 99/35368 A (Shell Int Research) - see figure 4	1
X	WO 98/00626 A (Shell Int Research)	1

X Document indicating lack of novelty or inventive step  
Y Document indicating lack of inventive step if combined with one or more other documents of same category.

& Member of the same patent family

A Document indicating technological background and/or state of the art.  
P Document published on or after the declared priority date but before the filing date of this invention.  
E Patent document published on or after, but with priority date earlier than, the filing date of this application.



INVESTOR IN PEOPLE

Application No: GB 0016917.7  
Claims searched: 43-52

Examiner: David Pepper  
Date of search: 25 January 2001

## Patents Act 1977 Further Search Report under Section 17

### Databases searched:

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:

UK Cl (Ed.S): F2G

Int Cl (Ed.7): F16L

Other: Online: WPI, EPODOC, JAPIO

### Documents considered to be relevant:

Category	Identity of document and relevant passage	Relevant to claims
A	GB 1137310 A (Commissariat a l'Energie Atomique)	-
A	US 5924745 A (Petroline Wellsystems Ltd)	-
X	US 4707001 A (Seal-Tech Inc) - see col 5, lines 9-37	43-45
X	US 4703959 A (Hydril Co)	43-45
X	US 4648627 A (Dril-Quip Inc) - see col 4, lines 25-39	43-45, 47
X	US 4577895 A (Hub City Works Inc) - see col 2, lines 40-54	43, 44
A	US 4501443 A (Mannesmann Aktiengesellschaft)	-

X Document indicating lack of novelty or inventive step  
Y Document indicating lack of inventive step if combined with one or more other documents of same category.

& Member of the same patent family

A Document indicating technological background and/or state of the art.  
P Document published on or after the declared priority date but before the filing date of this invention.

E Patent document published on or after, but with priority date earlier than, the filing date of this application.



Application No: GB 0016917.7  
Claims searched: 59-63

Examiner: David Pepper  
Date of search: 25 January 2001

**Patents Act 1977**  
**Further Search Report under Section 17**

**Databases searched:**

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:

UK CI (Ed.S): E1F FLA

Int CI (Ed.7): E21B

Other: Online: WPI, EPODOC, JAPIO

**Documents considered to be relevant:**

Category	Identity of document and relevant passage	Relevant to claims
A,P	GB 2344606 A (Shell <u>Internationale</u> Research Maatschappij B.V.)	-

X	Document indicating lack of novelty or inventive step	A	Document indicating technological background and/or state of the art.
Y	Document indicating lack of inventive step if combined with one or more other documents of same category.	P	Document published on or after the declared priority date but before the filing date of this invention.
&	Member of the same patent family	E	Patent document published on or after, but with priority date earlier than, the filing date of this application.